

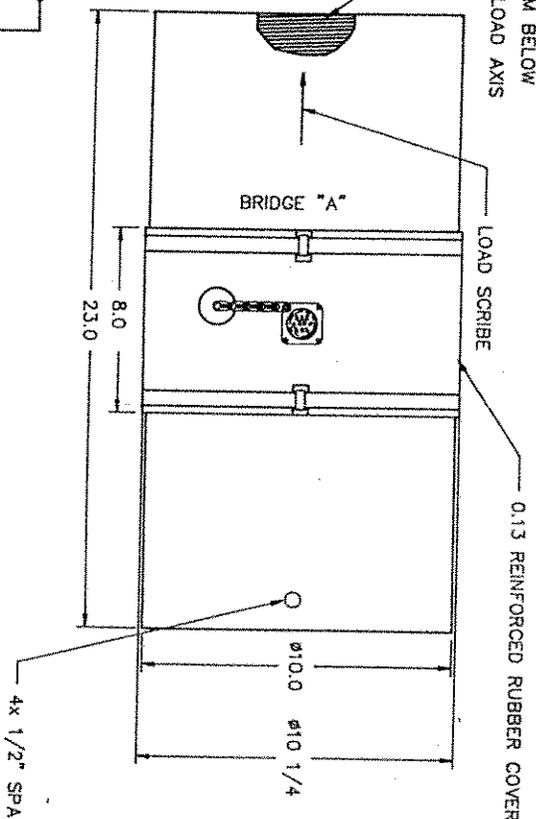
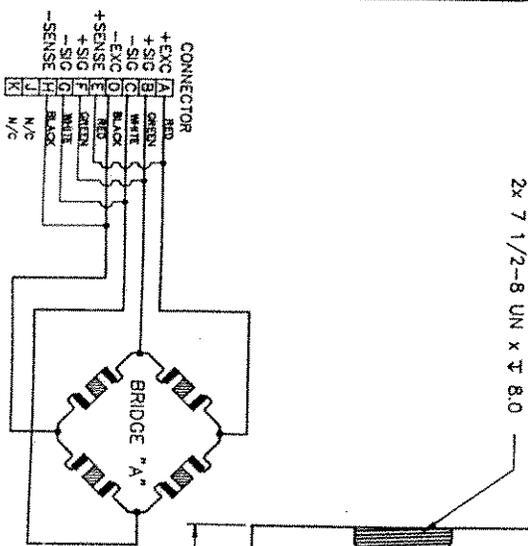
REVISIONS		
REV.	DESCRIPTION	DATE
A	ADD NOTE 13, MOVE LOAD SCRIBE	11/19/93

RELEASED  
BY ENG.

11 10 0

JOB # \_\_\_\_\_

13. APPLY ANTI-SEIZE TO ALL THREADS  
2x 7 1/2-8 UN x 8.0
12. **LOADING POINTS.** ARROWS INDICATE SENSITIVE LOAD AXIS
11. **ELECTRICAL CONNECTIONS.** SEE WIRING DIAGRAM BELOW
10. **ELECTRICAL CONNECTOR.** BENDIX PTO2E-12-10P OR EQUIVALENT, WITH ATTACHED DUST CAP MATING CONNECTOR: BENDIX PTOIE-12-10S OR EQUIVALENT
9. **CONSTRUCTION:** 10" OD, 4142 TUBE, PER ASTM A519, HEAT TREATED TO R<sub>c</sub> 32 MIN
8. **TEMPERATURE EFFECTS:** LESS THAN ±0.01% OF FULL SCALE SENSITIVITY SHIFT PER °F AND LESS THAN ±0.01% OF FULL SCALE ZERO SHIFT PER °F
7. **TEMPERATURE RANGE:** -65°F TO +200°F OPERATING, COMPENSATED BETWEEN +15°F AND +115°F
6. **CALIBRATION ERROR:** COMBINED ERROR OF LESS THAN ± 0.4% OF FULL SCALE (±3mV/V), INCLUDING HYSTERESIS, REPEATABILITY AND NONLINEARITY; BASED ON BEST STRAIGHT LINE
5. **EXCITATION:** 10 VOLTS D.C. OR A.C., 20 VOLTS MAXIMUM
4. **OUTPUT:** APPROXIMATELY ±3 mV PER VOLT EXCITATION EXACT OUTPUT PROVIDED WITH CALIBRATION DATA
3. **SENSING ELEMENT:** DUAL FULL BRIDGE 350 OHM STRAIN GAGES
2. **OVERLOAD:** 150% OF CAPACITY WITHOUT DAMAGE, 300% WITHOUT FAILURE
1. **CAPACITY:** 450,000 LBS TENSION OR COMPRESSION



UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES FRACTIONS ± 1/16  
XXX ± 0.03 ANGULAR ± 1°  
XXX ± 0.005 THREADS CLASS 2  
SURFACE ROUGHNESS 125

CONTRACT NO. JOCN 1850		METROX INC SAN DIEGO, CALIFORNIA	
APPROVALS	DATE	450K, TENSION AND COMPRESSION CELL	REV.
SAXER	10/20/92	TC110, SPECIFICATION CONTROL DRAWING	A
PF	10/22/92	SIZE FSCM NO. B 61449	DWG. NO. TC110-450K-1850-00
KAR	10/22/92	SCALE 1/4	SHEET 1 OF 1

**SPECIFICATIONS:**

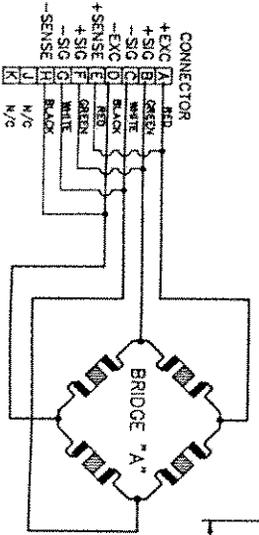
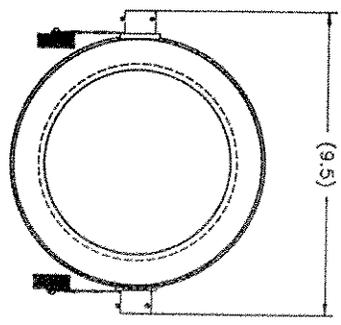
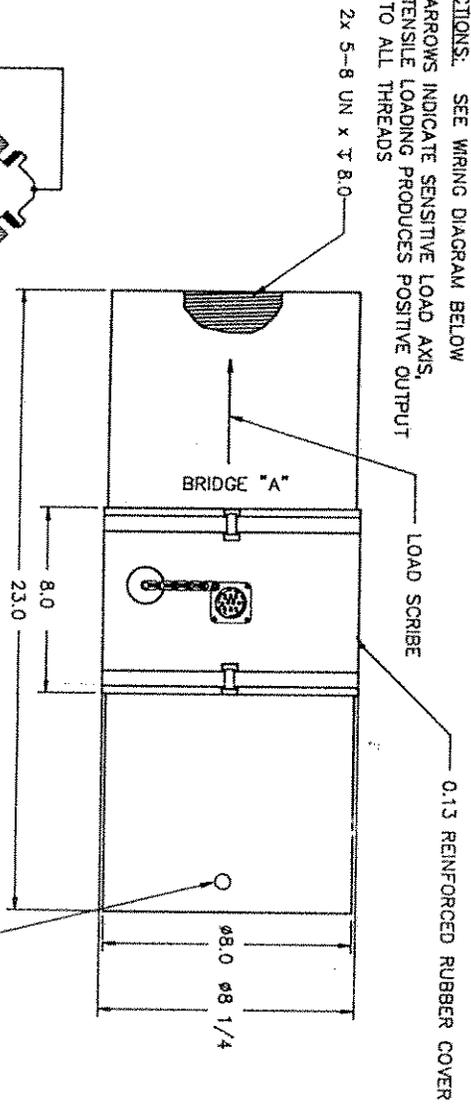
1. CAPACITY: 300,000 LBS TENSION OR COMPRESSION
2. OVERLOAD: 150% OF CAPACITY WITHOUT DAMAGE, 300% WITHOUT FAILURE
3. SENSING ELEMENT: DUAL FULL BRIDGE 350 OHM STRAIN GAGES
4. OUTPUT: APPROXIMATELY ±3 mV PER VOLT EXCITATION  
EXACT OUTPUT PROVIDED WITH CALIBRATION DATA
5. EXCITATION: 10 VOLTS D.C. OR A.C., 20 VOLTS MAXIMUM
6. CALIBRATION ERROR: COMBINED ERROR OF LESS THAN ± 0.4% OF FULL SCALE (±3mV/V), INCLUDING HYSTERESIS, REPEATABILITY AND NONLINEARITY; BASED ON BEST STRAIGHT LINE
7. TEMPERATURE RANGE: -65°F TO +200°F OPERATING, COMPENSATED BETWEEN +15°F AND +115°F
8. TEMPERATURE EFFECTS: LESS THAN ±0.01% OF FULL SCALE SENSITIVITY SHIFT PER °F AND LESS THAN ±0.01% OF FULL SCALE ZERO SHIFT PER °F
9. CONSTRUCTION: 8" O.D., 4142 TUBE, PER ASTM A519, HEAT TREATED TO Rc 32 MIN
10. ELECTRICAL CONNECTORS: BENDIX P103E-12-10P OR EQUIVALENT, WITH ATTACHED DUST CAPS  
MATING CONNECTOR: BENDIX P101E-12-10S OR EQUIVALENT
11. ELECTRICAL CONNECTIONS: SEE WIRING DIAGRAM BELOW
12. LOADING POINTS: ARROWS INDICATE SENSITIVE LOAD AXIS,  
TENSILE LOADING PRODUCES POSITIVE OUTPUT
13. APPLY ANTI-SEIZE TO ALL THREADS

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	ADD NOTE 13, MOVE LOAD SCRIBE	2/19/93	<i>[Signature]</i>

RELEASED  
BY ENG.

FEB 19 1993

JOB # 111050



BRIDGE "A" AND "B" ARE IDENTICAL  
ONE BRIDGE ONLY SHOWN

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
TOLERANCES FRACTIONS ± 1/16  
DECIMALS ± 0.010 ANGULAR ± 1°  
SURFACE FINISH CLASS 2  
THREADS CLASS 2  
SURFACE ROUGHNESS 125

CONTRACT NO. JCCN 1850		METROX INC SAN DIEGO, CALIFORNIA	
APPROVALS	DATE	300K, TENSION AND COMPRESSION CELL	
S. SAXER	10/26/92	TC110, SPECIFICATION CONTROL DRAWING	
CHECKED PF	10/22/92	SIZE FSCM NO. B	DWG. NO. TC110-300K-1850-00
ISSUED KAR	10/22/92	61449	REV. A
DO NOT SCALE DRAWING SCALE 1/4		1850\TC110\300K\00A1	SHEET 1 OF 1